Name

Exponential Function Decay (Continuous) - Meaning to Term

1 In this model of continuous reduction of a toxin concentration, which term represents the starting concentration?

$$C = C_0 \cdot e^{(-r \cdot t)}$$

starting concentration $=?$

A	B	C
t	C	C_0

2 In this model of continuous reduction of a toxin concentration, which term represents the rate?

$$C = C_0 \cdot e^{(-r \cdot t)}$$

rate $=?$

A	B	C
t	C_0	r

3 In this model of continuous decline of a bird population, which term represents the final population?

$$P = P_0 \cdot e^{(-r \cdot t)}$$

final population $=?$

A	B	C	D
P	P_0	r	t

4 In this model of a continuously declining bacteria population, which term represents the starting population?

$$P = P_0 \cdot e^{(-r \cdot t)}$$

starting population $=?$

A	B	C
P	r	P_0

5 In this model of continuous decay of a radioactive material, which term represents the rate of decay?

$$R = R_0 \cdot e^{(-r \cdot t)}$$

rate of decay $=?$

A	B	C
r	R_0	R

6 In this model of continuous decline of a whale population, which term represents the rate?

$$P = P_0 \cdot e^{(-r \cdot t)}$$

rate $=?$

A	B	C
P	r	t

7 In this model of continuous decay of a radioactive material, which term represents the final concentration?

$$R = R_0 \cdot e^{(-r \cdot t)}$$

final concentration $=?$

A	B	C
R	R_0	r

8 In this model of continuous decline of a bird population, which term represents the time?

$$P = P_0 \cdot e^{(-r \cdot t)}$$

time $=?$

A	B	C
P_0	P	t